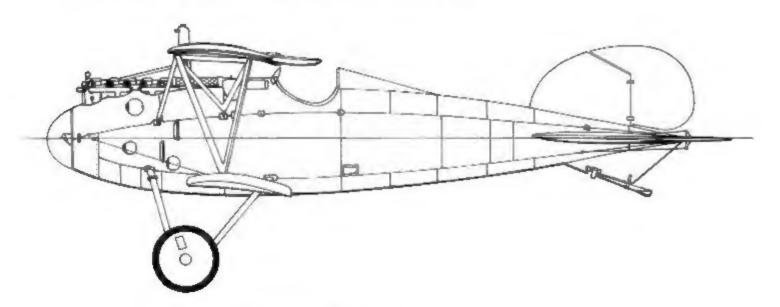


Albatros fighters in action

by John F. Connors

illustrated by Don Greer







(Cover) When handled with skill and courage, the Albatros was able to master any aircraft the RAF could throw at it. During the hard winter of 1917-18, Albatros D.Va of Jasta 12 maneuvers for favorable position on a pair of S.E.5as.

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Author's Note

It is most significant that the initial World War One subject to be covered by Squadron/Signal's in Action series should be the Albatros fighters. From the fall of 1816 until the end of the war, the Albatros was the mainstay of fighter units of the Imperial German Air Service. Even though out-moded by more sophisticated aircraft later in the war, the Albatros, like the Messerschmitt Bf 109 of World War Two, remained the backbone of the German fighter forces. Nearly every well-known German ace of the First World War flew an Albatros at some time in his career, if not for most of it. Having been flown by so many aces, and having seen so much combat service, Albatros fighters carried some of the most colorful and fascinating personal and unit markings ever seen on military aircraft, as the color pages of this book will attest.

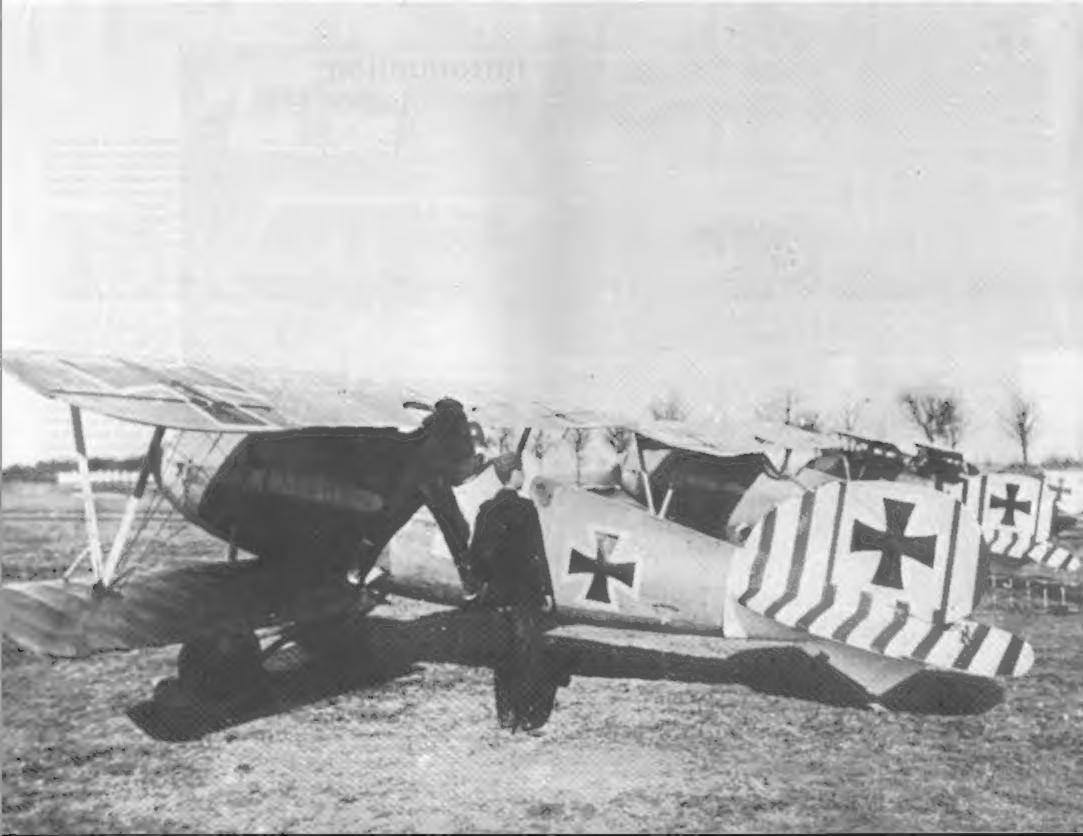
Special thanks are due to John R. Carlson, whose collection provided most of the photographs for this book; also to Peter M. Grosz, the Air Force Museum and the National Air and Space Museum for additional information and guidance. Thanks also to Robert Sheldon, whose extensive private library was always at my disposal.

Finally, a word of appreciation to Dan Abbot, who was a great help in identifying color schemes.

All photos courtesy John R. Carlson collection, unless otherwise noted.

To Kim & Pat

(Opposite) A flight of Albatros D.Vas of Jasta 8 with black and white tail stripes. By this time, in late 1917, the Albatros no longer enjoyed the superiority it had a year earlier. Still, in the hands of a skilled pilot, it could master any Allied opponent.



Albatros D.I prototype, probably at Johannistahl, shows the clean, compact lines that made it the most modern fighter aircraft of its time. Features not incorporated on production D.Is include upswept 'rhino horn' exhaust outlet and unbalanced elevators. The prototype was unarmed. The only paint applied to this aircraft are national markings and Albatros company trademark on rudder. Note side-mounted Windhoff radiator.



Introduction: The Albatros D.I

The Albatros-Flugzeugwerke GmbH was founded at Johannistahl in 1910 by Walter Huth, a German aviation enthusiast. Huth owned a French-designed Farman biplane, so it is little surprise that early Albatros aircraft closely followed the Farman format. By the outbreak of war in 1914, however, the Albatros firm was engaged in the building of aircraft of original design. Albatros B and C Type two-seaters gained an early and excellent reputation among German aircrews for their speed, strength and reliability.

By the spring of 1916, the air superiority that the Germans had gained with the Fokker Eindecker was lost. Newer Ailied sircraft, specifically the French Nieuport 11 and the British DeHavilland D.H.2, greatly outclassed the Fokker monoplanes. Neither of these Ailied machines was equipped with a synchronized machine gun, ploneered by the Fokker, but both were superior in performance. In order to regain air supremacy, officials of the German Air Service called for the reorganization of lighter aircraft into more concentrated units and better aircraft to equip those units. In response to this latter demand, Albatros unveiled the D.I in April 1916.

The D.I was the brainchild of Robert Thelen and his assistant Dipl. Ing. Schubert. Thelen had joined Albatros in April 1912, as chief designer, and in the summer of 1914 was promoted to technical director. Schubert then became head of the design department. Thelen decided to concentrate on speed, power and armament, at the expense of maneuverability, and so designed the D.I around the most powerful and reliable power plant then available, the Mercedes D.III of 180hp, a six-cylinder inline engine. Two synchronized 7.92mm Maxim machine guns were mounted in front of the cockplt.

The wings, of typical construction for the time, were built around two main spars with plywood ribs and fabric covering. On the D.I prototype, the lower wing was of a slightly narrower chord than the upper; on production aircraft, the chord was made constant in order to ease production. The parallel interplane struts and the single trestle-type cabane structure were of streamlined steel tubing, mounted in bayonet type socket joints. The angle of stagger of the upper wing was adjustable.

The fuselage was of semi-monocoque construction, built around six spruce longerons which were supported by formers of three-ply. Around this frame was built a shell of three-ply sheets, tacked and screwed in place. This kind of construction resulted in a light-weight but extremely sturdy fuselage, which required no internal wire bracing. The vertical tall fin was also of wood and was integral with the fuselage, as was the raked underfin that supported the ash tail skid.

The lower wing panels were attached to an abutment that stretched below, but not wider than, the fuselage. Shaped aluminum fairings streamlined the wing root into the curved fuselage underbelly. A circular aluminum cowl formed the nose section of the fuselage on either side of the angine cylinder block. The hub of the laminated Axial propeller was encased in a bulbous aluminum spinner. The only feature that detracted from the clean appearance of the fuselage was the mounting of a Windhoff radiator on each fuselage side, between the wings.

The undercarriage was of the typical "V"-type of steel tube struts, the axle sprung with elastic (bungee) cords. All control surfaces were of steel tube framing with fabric covering.

The DJ prototype showed excellent performance. Its top speed was 102mph, and it could climb to 1,000 meters (3,280ft) in just over four minutes. Although the performance of the DJ was met with much enthusiasm, it was not ordered into immediate production. Only 12 pre-production examples were ordered in June 1916, full-scale production not being approved until August. The reason for this delay is not known, but the DJ was ready for combat by September 1916.

The D.I made its combat debut at a time when German fighter aircraft were being reorganized into units known as jagdstatteln (literally 'hunting echelons', abbreviated



The top view of this production D.I shows a camouliage pattern of dark green and chestnut brown. The luselage is clear-varnished plywood. Note also early style national markings on close-cropped white squares. Struts and metal panels are light gray.

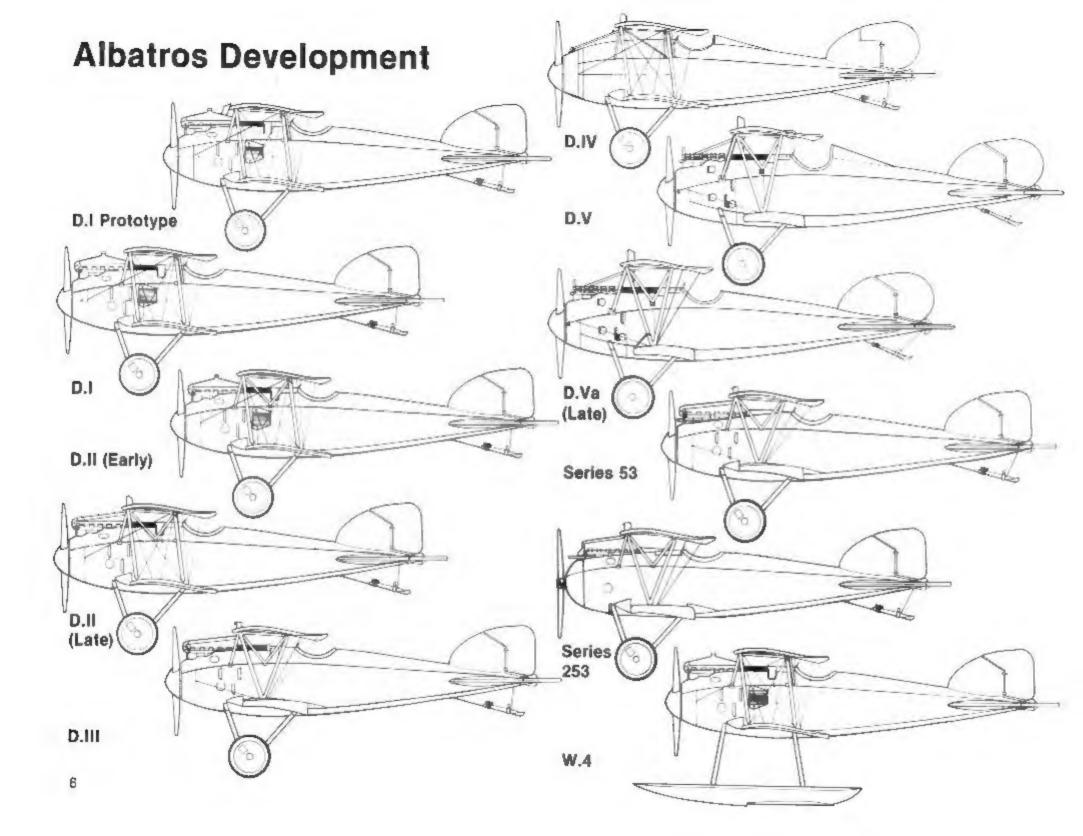
Jasta 1 was formed on 23 August 1916 at Bertincourt, under the command of Hauptmenn Martin Zander. Jasta 2 was formed four days later at Laguincourt and commanded by Oberleutnant (later Hauptmann) Oswald Boelcke. By the end of August, seven Jastas had been formed and, by the end of 1916, 25 had been organized.

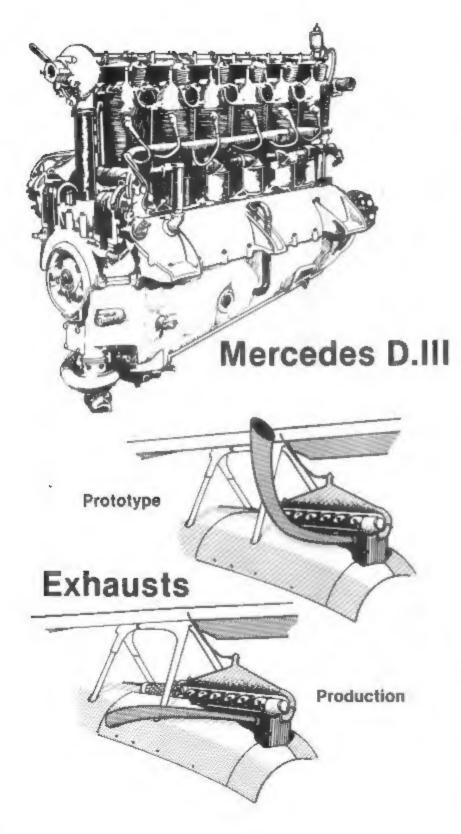
Although second in numerical order, Boelcke's Jasta 2 was the first to see action. The unit received its first Albatros D.Is in mid-September and, on the 17th of that month, Boelcke and five other pliots made their first patrol with the new aircraft. Near Cambral, a flight of seven British F.E.2b pushers was encountered and, in the ensuing dogfight, five

of the pushers were brought down with no loss to the Germans,

The D.I Immediately made every other fighter aircraft at the front obsolete. Although less maneuverable than the Nieuport 11 or the D.H.2, the Albatros was faster, stronger and had twice the firepower with its two guns.

The D.Ps service peak came in November 1916, when there were 50 examples at the front Production of the D.I was limited because the construction of its successor, the D.II, was begun even before the D.I entered combat. A total of 62 Albatros D.Is were built, including the 12 pre-production machines ordered in June.







Line-up of Albetros D.Is of Boelcke's Jasta 2 at Berthincourt, September 1916.

At times, fighter aircraft were assigned to bomber and reconnaissance units for escort or ilason duty, like this D.I which served with Kampfgeschwader V, Staffel 15. Position of upper wing, which limited upward visibility, is apparent.







A D.I of Kampleinsitzerstaffel (KEST) Morchingen, a home defense unit.

391/16, a D.I flown by Li. Büttner of Jasta 2 was brought down Intact by the British in December 1916 and extensively tested and studied. This aircraft was one of the Iwates pre-production D.is ordered in June 1916.

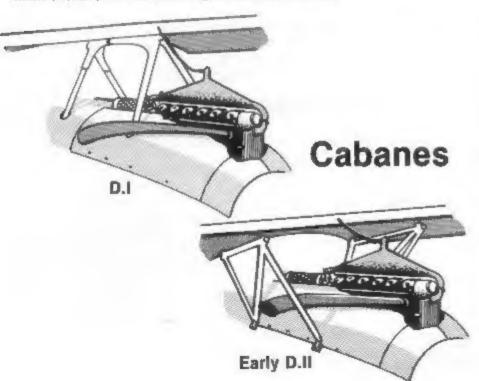
The Albatros D.II

The Albatros D.II was developed to correct some of the design flaws of the D.I. The upper wing of the D.I was mounted in such a way as to restrict the pilot's vision forward and upward. Sighting forward through the legs of the one-piece cabane structure was difficult. Additionally, the fuselage-mounted radiators, besides being a detriment to the aircraft's streamlining, created another problem. When punctured by a bullet, their positioning would allow water to drain from the cylinder heads, resulting in engine saizure.

On the Albatros D.II, the trestle cabane structure was replaced by a pair of splayed 'N'-struts, which allowed the lowering of the upper wing. This improved forward visibility considerably. It also allowed for a Teeves and Braun radiator to be mounted in the upper wing center-section, although many early D.lis still carried the fuselage-mounted Windhoff radiators, (it is assumed, therefore, that these initial D.IIs were in fact built as D.Is but, when assembled, incorporated the newer strut arrangement and were thus designated as D.IIs.) The wing-mounted radiator did much to clean up the appearance of the aircraft, but it created a combat hazard of its own. If the radiator were holed by a builet, the pilot could be sprayed in the face with scalding water.

Since production of the D.II followed so closely upon that of the D.I, the two aircraft made their combat debuts at about the same time. One D.II was reported in service in September 1916; 28 were at the front in November and, in January 1917, the D.II's service peak, 214 were in combat use. A total of 275 D.IIs were built, 200 by the parent Albatros company and 75 under contract by L.V.G. (Luft Verkehrs Gesellschaft).

The D.II showed no real increase in performance over the D.I. In fact, its climb to 1,000 meters took 50 seconds longer, and its combat endurance was an hour and a half - 20 minutes less than the D.I. Top speed was the same, but the D.II's service celling of 5,200 meters (17,060ft) was 200 meters higher than that of the D.I.

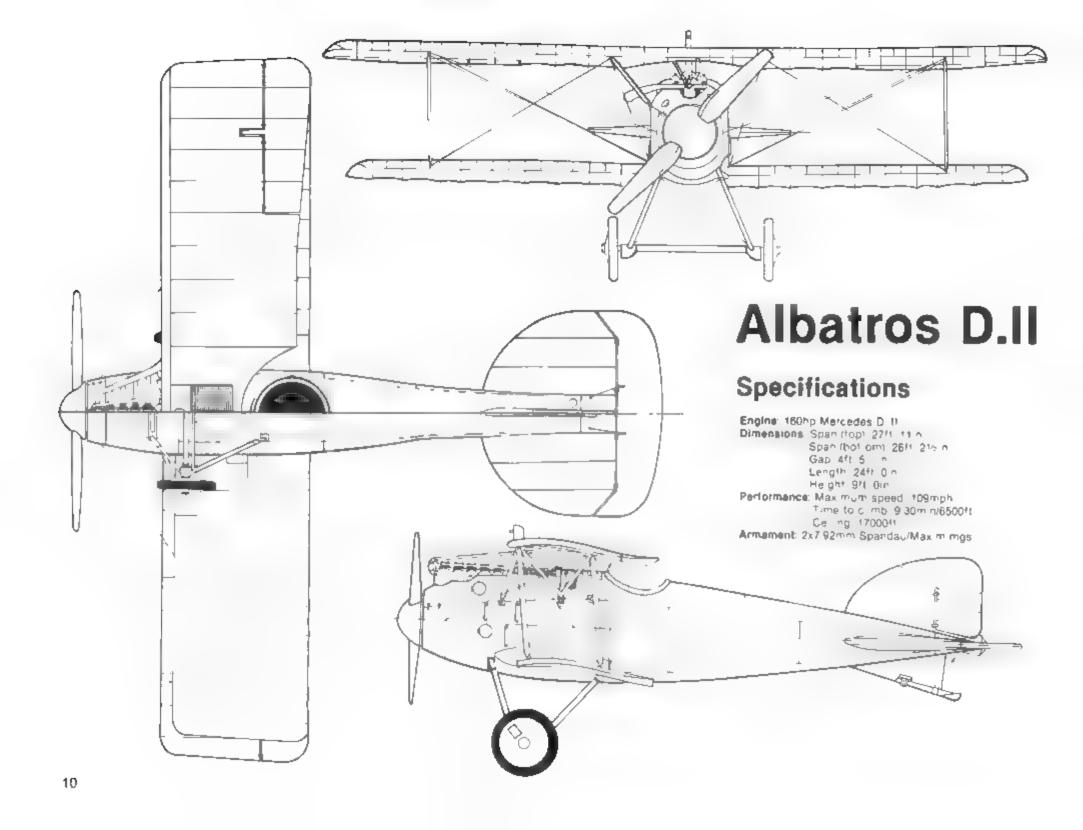




Albatros D.II prototype with upper wing in the lowered position caused by the new cabane system. Note non-standard windscreen. As on D.I prototype, no armament was carried.

A flight of four Albetroe D.lls.

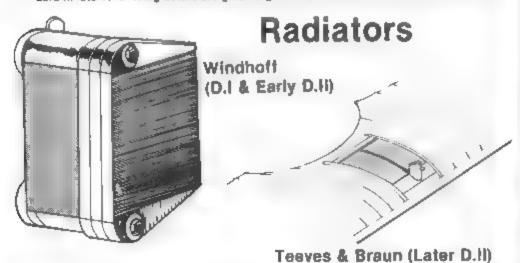








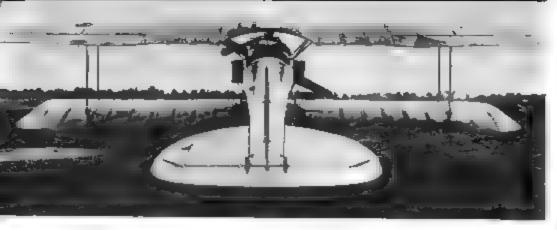
(Above Right) Lt. Krelewski's noted over Affatros D.R of Jasta 4 shows position of wingmounted Teeves & Braun radiator. National markings with thin white outline became standard in late 1916. Wing colors are green (light eres) and chestnut brown (dark eres,



Pilote and mechanics of Jasta 10 pose with Lt Alois Heidmann's over-furned Dil Heidmann (third from left) appears uninjured by the ecoldent. With his arm around Heidmann is Viw Barth.

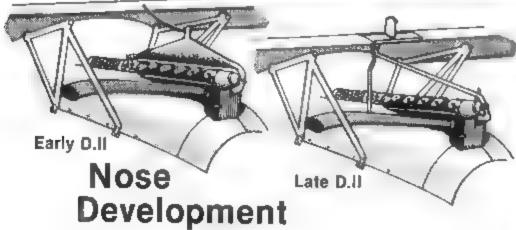






(Above and Below) Early Albetros D.tls retained the fuselage-mounted Windhoff radiators, like this RAF-captured example.







Albetros D II. serial D 1782/16, the 83rd alreraft of the second D.II production batch of 100 ordered in September 1916. Pilot is unidentified. (Air Force Museum)

The great Oswald Boelcke (second from right) being congretulated on this 34th victory. He would attain six more before being killed on 25 October 1916, the result of a chill six more with one of his own pilots during a doglight. The first serial tectician, he was respected by I is enemies as well as his comrades. Several German aces would become successful because of Boelcke's leadership. Including leading ace Manfred von Richthofen, After Boelcke's death, Jasta 2 was renamed Jasta Boelcke by Imperial Decree.



The Albatros D.III

The Albatros 0.III was an attempt to improve the maneuverability of the D.H. In this, Thelen and his design team were influenced by the French Nieuport fighters and their rather unusual wing layout. The Nieuport was not a true biplane, but rather a "sesquiplane" having a wing-and-a-half instead of two. The lower wing built around a single spar was of much narrower chord than the upper with interplane bracing being achieved by 'V'-struts. This arrangement provided good maneuverability and excellent downward vision. Captured Nieuports were sent to a imajor German a reraft firms including A batros, with the hope that some of the Nieuport's features could be incorporated into a German I ofter and favorable results achieved.

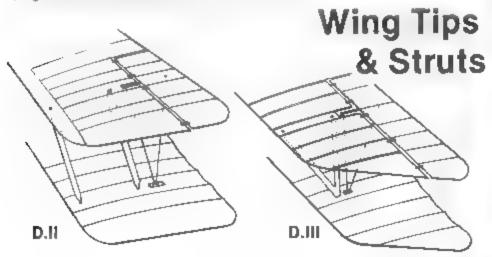
Theren and his staff designed a new wing cellule based on the sesquipiane idea. The lower wing was of less chord than the upper, but not quite so redically as that of the Nieuportis. The lips of both wings were raked, and the parallel interplane struts were replaced with a single "V" strut on each side. This new wing structure was combined with the existing Dul Juselage, the resulting alreraft being designated the Albatros D. I

The new wing plan gave the D.(Is improved maneuverability and rate of climb, but there was no appreciable increase in speed over the D.). The O.I.I could reach 3,000 meters in two and a haif minutes, and flight endurance was increased to two flours.

As with later Ditis, the Diti featured a Teeves and Braun radiator in the upper wing center section. In later Ditis, the radiator was moved from the middle to the starboard side of the center section to minimize the danger of pilot scalding if the radiator was punctured by a butlet. The relocation of the lad ator and the resulting rearrangement of the radiator piping also helped improve vision.

The DIT had one serious drawback in adopting the Nieuport wing plan, the Albatros in her ted the French lighter sichlef weakness. The single spar fewer wing had a tendency to collapse under the stress of a prolonged diversion excessive maneuvers. Several Golman aviators experienced wing tailures including leading ace Manfield von Richthoten, who gave up the Albailos for about a month and tiew a Halberstadt Dit instead. He later, eturned to flying the Albatros iperhaps be leving the risks of its structural weaknesses were outweighed by its excellent performance.

At any rate the DT1 was still far superior to any Altied fighter of the time, a fact which contributed to the severe losses suffered by the British duing the so-called Bloody April 1917. During that month, the British lost 15 lawcraft on the Western Front, while bringing down only 30 German aircraft. The end of April, however, haw the introduction of newer and better British aircraft, such as the Royal Aircraft Factory S.S.5, which helped bring about an end to the Aibat os superiolity.





Albetros D III prototype. Fuseinge appears to be covered in a dark wood stain instead of clear vernish. Albetros trademark is appearent on clear-doped rudder. Note narrow-chord lower wing and 'W-shaped interplane struts.

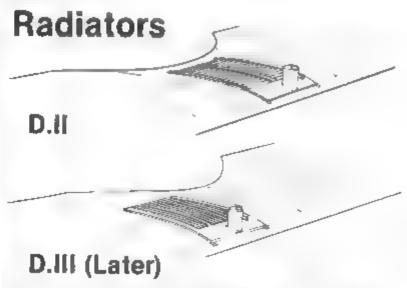
type were in service by the end of the following month. There were 137 in service by Maich 327 by May. The Dillis service peak came in November 19, 7, when there were 446 examples at the floor. A to a of 1,340 A batros Dillis were built 500 by the parent firm at Johannistah, and 840 by the Ostdeutsche Arbatros Werke IO A.W., the company's East German branch at Schneidemuh. O A.W. built Dillis were laigely similar to those built at Johannistahl, but featured a larger rudder with a fully rounded trailing edge.

D.III was quite possibly the best looking of the Albatros fighter series, a fact borns out by this exemple, set against a winter background.

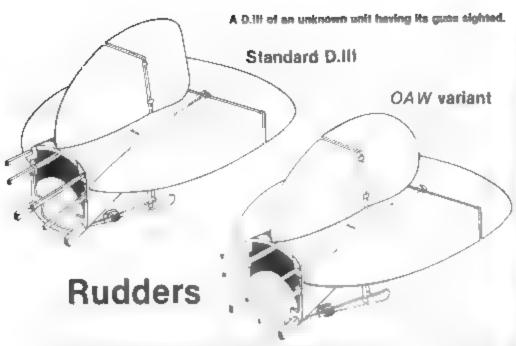


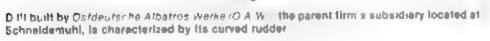


Albetron D its and D its of Jasta 5 at Solatrancourt, April 1917. Note different styles of national markings, individual markings were black and white.



vasta 14 D.IIIs. In the foreground is already of Lt. Friedrich Vonschoot. Veltjen's machine is in background. Note absence of prop spinners. Photo taken probably in April 1917

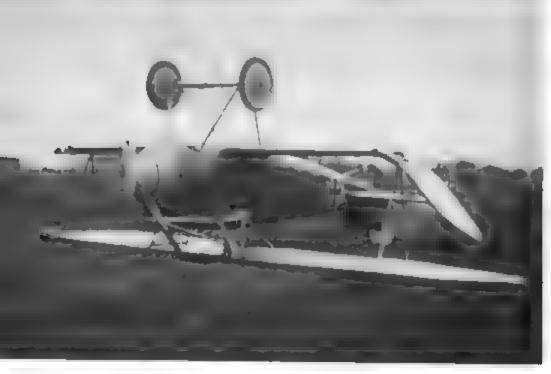


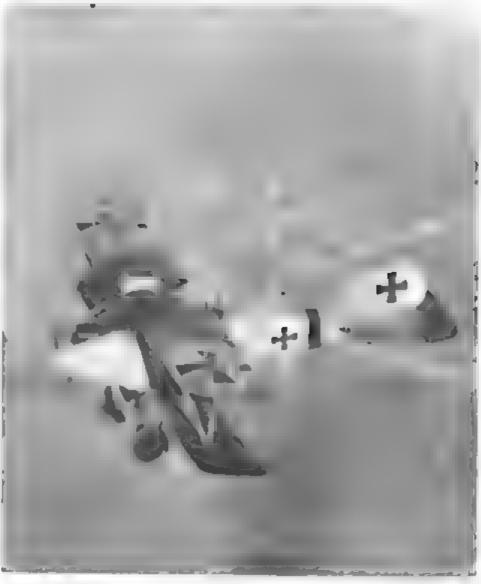












An O A W built D III over the Russian Front. Dark green and mauve camouflage on upper wing is apparent, as is radiator located on starboard side of wing center section.

(Above Left) in all wars, on all fronts, maintenance is an endless task. Here, mechanics of Jasta 29 replace the propetter of a D.III after working on its engine

Overturned 0.ill assigned to Fileger Abterlung (A) 250 at Heule vindily demonstrates weakness of lower wing. Wing failures like this were to plague Albatros D.Ills, and later D.Vs. throughout their service careers. The single spar, around which the lower wing was built, could break under stress of excessive maneuvers or prolonged dives.

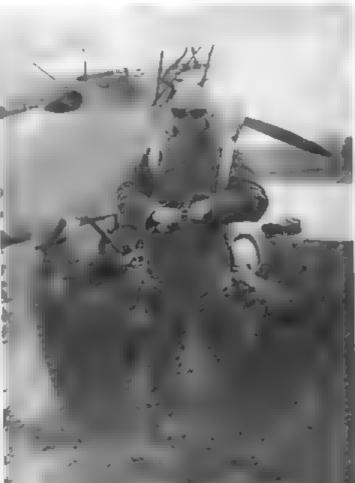


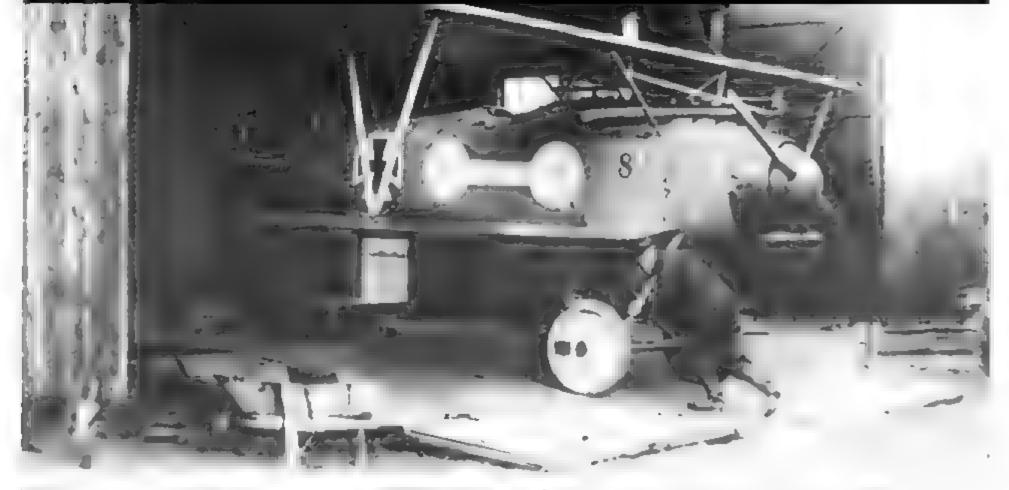
Dills of Jasta 29 Aircraft No. 2 was flown by Lt. Wilhelm Almenroder No. 4 by Corp. Fritzeche. Numerals are black with white outline. Note difference in fuselage coloration, aircraft No. 2 was coated in dark stain, No. 4 in clear vernish.

Only late in the war were German photo equipped with perachutes. Here, a pilot of Jasta 8 is helped into his limited. The parachute pack lies stop fuselage. Note flere cartridge rack on fuselage side and the rear-view mirror on the wing.

Albatros Diffs and Diffis of Jasta 10 at Ancervilles, Spring 1917.









Viw Barth's D III of Jasta 10 is easily pushed into its hanger. Arcraft of this unit had yellow noises, white personal markings and black numerals.

Lt Karl A Imenröder of Jasta 11 in bis D III. This aircraft had a red fuselage, tall, undercarriage and struts. Nose and elevators were white: A 30-victory ace. At menroder was shot down and killed on 27 June 1917 by Canadian ace Raymond Collishaw.

t1 von Budde of Jasfa 29 in his D.III, serial D 2052/16 Note large windscreen. The personal initial is black and white





Lt. Kurt Student, CO of Jasta 9. In his D III which also is fitted with a non-standard windscreen. Student gained nine victories, survived the war and served with distinction in the Laftwaffe during WWII.

Pillots and mechanics of Jasta 26 discuss ways of righting Lt. Bruno Lörzer's black-and-white striped Dill. Note fabric repair patch on porturper wingtip, central location of wing radiator and green/brown upper wing camouflage pattern.

Lt. Kurt Schnelder of Jasta 5 poses with the unit mescot in front of his D III. The 15-victory see acted as CO of Jasta 5 from 4-20 May 1917, but was killed in action on 8 June.

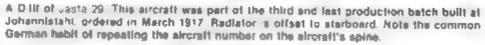
Lt. Affred Lenz seated in his Albatros D.III which he flew while with Jasta 14 during the spring of 1917. Lenz became CO of Jasta 22 on 21. July 1917, gaining six victories before wer's end.



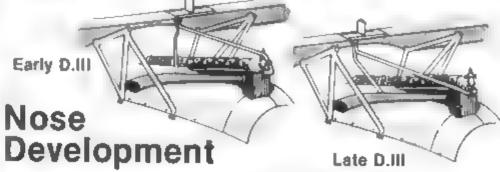












The Albetros D III remained in front-line service much longer than is generally believed. This example, photographed in May 1918 was flown by L1 Franz Ray CO of Jasta 49. Air craft has a black fuselage, white fin and rudder. Wings are covered in the then-standard five-color lozenge camourlage fabric high ighled by light blue rib tapes. Note the straight-armed Balkenk eut which replaced the Pathe cross in early 1918. This example is most untusual in having a small airful fitted over its landing geer axis.

The Albatros D.IV

The Albatros D IV was developed in ate 1916 as a test bed for an experimental, geared version of the Marcades engine. If was not las previously thought, intended as a replacement for the Albatros D I

Three D. Vs were ordered but probably only one was built. The fusetage was similar to that of the D. D. it series, but featured a small headrest for the pliot, and the engine was completely enclosed in the fusetage mose. Wing construction returned to the two spanower plane and para is interplane strute of the D. and D.II. The tail plane was fine rower chord than the previous tighters, and the rudger featured a square rather than a triangular balance.

The performance of the Dily was poor largely due to teerning problems with the gealed Marcedos Testing with the aircraft lusing various types of properers continued unit at east April 19-8.



The only verified Albetros D IV prototype. Note small headrest square balance on rudder larger chord of lower wing, parallel interplane struts and completely cowied engine. Of three examples ordered, thus is probably the only one completed.



The prototype Afbatros D V was completely covered in five-color lozenge camoultage, including metal panels and struts. The prototype's rudder has straight training edge of D.I-D.fill series. This aircraft was being test-flown by April 1917

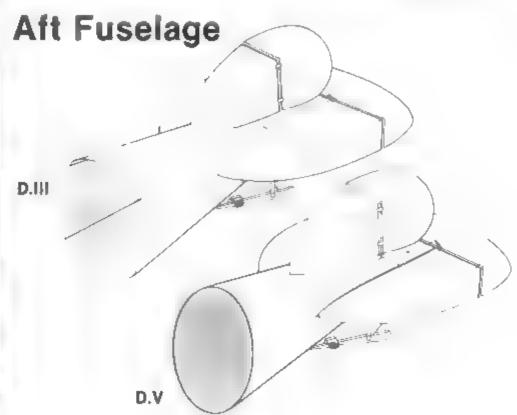


The Albatros D.V and D.Va

In developing a successor to the Albatros D. II, Theren and his staff decided to design a new fuselage and retain the wing plan of the D.III. The Albatros D.V. therefore, featured a fuselage that was completely eval in cross-section, in contrast to the flat sided fuselage of the D.I.D.III series. The lower wing root was not faired into the fuselage structure as on the previous fighters. Instead, the tower wing planes were attached to small stubs mounted on the lower fuselage sides. A rather high headrest was fitted to the D.V. which was often removed in service as it senously obstructed rearward vision. On later D.Vs, the headrest was eliminated in production.

The fail unit of the D.III was retained on the D.V, but included the larger curved nudder litted to Q.A.W -built aircraft. The underlin of the D.V had a more raked appearance. The wings of the D.V were identical in construction and dimension to those of the D.III but d.I. lered in the method of alleron control. On the D.III, the control cables came down from the alleron, entered the lower wing near the base of the 'V'-strut, then continued through the lower wing to the control column. The cables on the D.V passed through the upper wing then down into the tysetage.

The A batros D Val was developed soon after the D vill featured a strengthened air frame, which brought the empty weight to 1580 ibs, as opposed to 1500 ibs for the D.V (I was powered by a more powerful version of the Mercedes D I I uprated to 180hp. The most apparent difference was the aleron control the D Valreverting back to the system of the D.III, perhaps because a more positive control response was achieved. In fact, the



wings of the D.till and D Va were interchangeable

The Albatros D.V began to enter service in May 1917, the D Va in October. Their performance was only slightly better than the Ditlis, with a top speed of about 106mph and climb to 1,000 meters taking four minutes and 20 seconds. Therefore, German pliots expecting an improvement over the Ditli were very disappointed. Current Albed aircraft were more than a match for the DIV and DIVa.

In add tion, the wing structural problems that had plagued the D.I.I were not eliminated in the D.V. One pilot Lt Von Hippe of Jasta 5, lost the entire left lower wing of his D.V. during a dogright on 5 February 1918. Von Hipper managed to bring the aircraft under control, but loverlurned on landing at Le Catelet. Miraculousty, he was uninjured, but was understandably shaken by the incident.

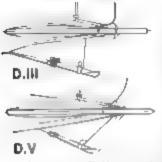
investigation into this and other D V wing failures found that the problem lay mostly in faulty design of the spar attachment system. A stronger one was designed and replaced on aircraft in the field. Other modifications fitted to D Vs and D.Vas included an extra

bracing wire from the fuse age nose to the point of the Vilstrut, and to the top rearing of the strut. Also a small auxiliary strut was attached from the front leg of the "Vilstrut to the lower wing leading edge. Even with these modifications, priors were urged not to over-dive their. Albatros and to avoid overzealous maneuvers.

Even though it was more or less obsolete when it entered service, the A batros D V/valcould in the hands of a skilled pilot, give a good account of itself in combat. If bore the brunt of the aerial righting that took place during the German Offensive of 1918, and several well-known aces such as Manfred von Richthofen. Hermann Göring Bruno Lörzer Erich Löwenhardt and Edouard von Schleich made extensive use of the aircraft.

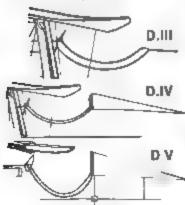
The D V/Va was the most produced and widely used of all the A batros fighters, a total of 2,512 (900 D Vs. 1,612 D Vs.) having been built. At their service peak in May 1918, there were 1,117 of these types at the front — 131 D Vs and 986 D Vs. With the arrival of the excellent Fokker D VI. In the Spring of 1918, the number of A batros D Vs and D Vs. began to decline, but the type remained in wide service with German air units until the Armistice.

Fin Development



Albatros D V serial D 1021/17, the twenty second D.V built of the first production batch (200), ordered in April 1917. The high headrest is apparent. This blocked rear vision, causing its removal from many aircraft in service.

Cockpit & Headrest Development

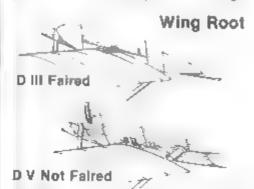




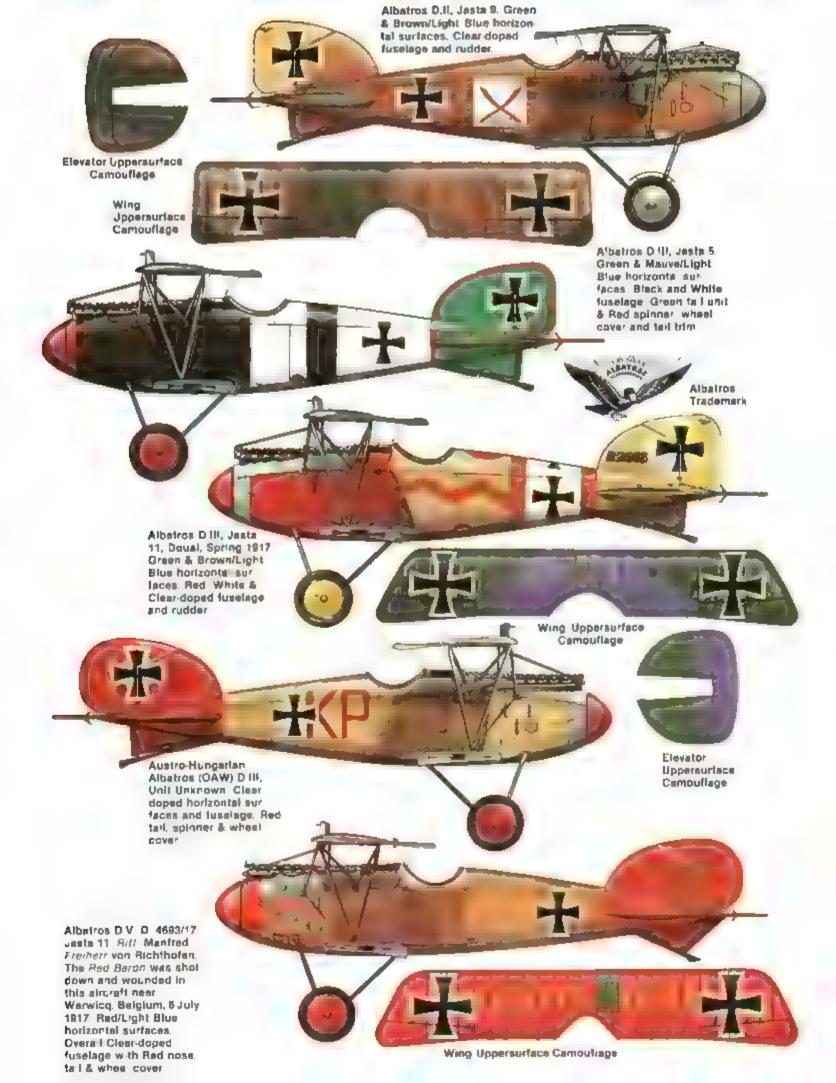


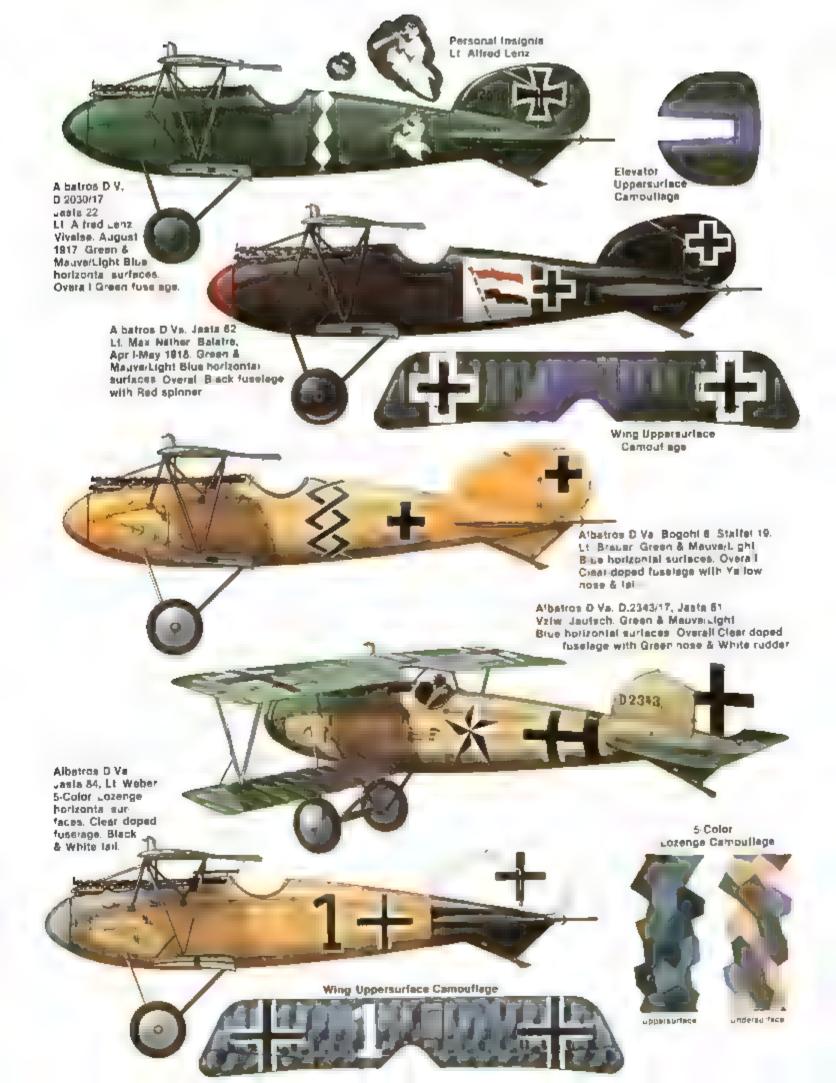


Groundcrewmen of Jasta 0 pose with that units 0 Vs at Marcke Belgium, summer 1917 Aircraft shown are those flown by (), to r.) Heidmann, Löwenhardt Barth, Weigand, Aus. Burgetier and Kuhn Ad aircraft hall yellow noses with white personal markings.



Dills and D.Vs of vasta 12. Black talls and white spinners were a feature of this unit Personal markings were black and white. Two aircraft in foreground were flown by Hptm Adolf Ritter von Tutschek, CO of the staffe.







Pilots and Albairos D.Ve of vasta 37. Aircraft in toreground, serial D.4427/17 with the black and white star marking, is personal machine of Obit. Hans Waidhausen, who is seated at the right bottom playing chess.

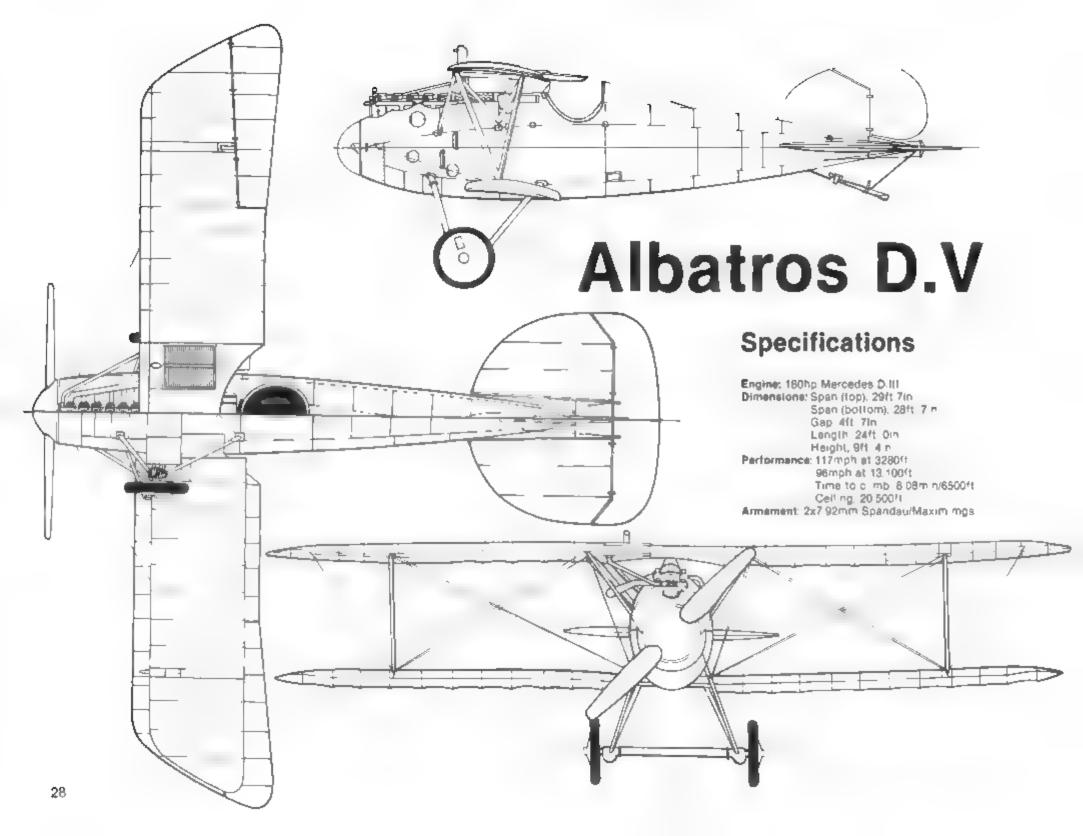


A stretcher being prepared for the wounded pilot of D.V. serial D.1966/17



The wing structural fallures that had plagued the Albetros D III recurred in the D V as evidenced here. Only the pressure of war can explain the fact that the D V was ordered into full-scale production before its cause was determined and this problem was rectified. Note everon control arm shrouds, a common feature in the D V.





Line-up of garishly marked D.Vs of Jasta 5 at Boistran-court, January 1916. All alreraft of this unit had green tails, out-med in red, with red spinners and wheels. Air craft at far left is Lt. Paul Baumer's. Fifth machine from left is Von Hippel's.

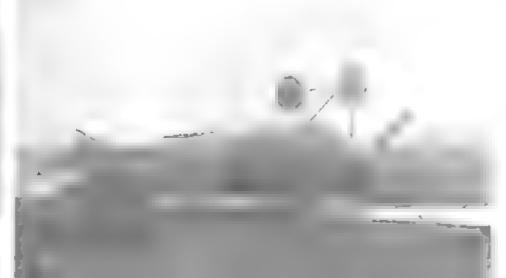


Albeitos D Vs. of Jasta 326 at Chery-les-Poully. October 1917. Aircraft in foreground is that of the unit's CO Obst. Eduard Ritter von Schleich. His machine had all-black fuselage. fail and wheel covers, white spinner, lozenge campullage wings.

D.Vs of Jasta 22 at Mout, August 1917. Machine in rear is Lt. Wonach's.

Lt Hans Joschim von Hippet's D.V. overturned at Le Catelet. 18 February 1918, after using its port lower wing during a dog/light at 15,000 ft. Von Hippet regained control long enough to land and improved universe universe Luckey, he had been ftying a D.V. on which the effect control cables ran through the upper wing, rather than the later D.Va. with cables through the lower wing.



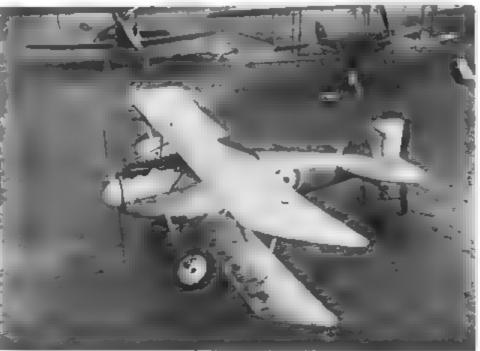




This D Vs with skull and crossbones markings was captured and tested by the French A look at the lower wing will show that the light blue center to the French rounder is there. It has dropped out on the side and tar due to the brightness of the sun and the use of or thochromatic film which lightens blue.

(Right & Below) D.V. serial 4545/17, flown by Vzfw. Max Wechwitz of Jasta 24, was brought down intect by ground fire near Bethune on 7 December 1917. It was test flown by the British. Note five-color lozenge camoul/age on wings and failplane. The fuzelage and tall are varnished plywood. Alteraft in backgound are Royal Alteraft Fectory B.E.2cs.







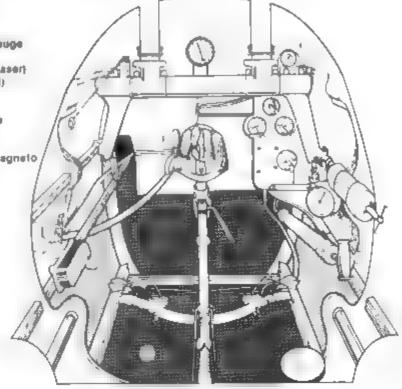
Albeiros D IIIs, D.Vs. and. In the foreground, a Roland 0.9 of Lt. Hermann Göring a Jasta 27

Lt Carl Menckhoff with his D V of Jasta 3 at Rumbeke. August 1917. An ace with 39 victories. Menckhoff became CO of Jasta 72 on 23 April 1918. He was shot down on 25 July by Lt. Walter Avery of the US Air Service and made prisoner. The fuselage is camoufleged, probably in green and mauve, in similar feshion to the wings. Undersides are believed to be light bigs. Menckhoff's Initial on side is block, the wheels white



D.V Cockpit

- 1 Fuel Gauge
- 2 Techometer
- 3 Compass
- 4. Fuel Pressure Gauge
- 5. Floor
- 5 Water Pump (greaser)
- 7 Fuel Pump (hand)
- 8. Main Throttle
- 9 Control Stick
- 10 Auxiliary Throttle
- 11 Spark Control
- 12 Magneto
- 13 Hand Cranked Magneto (for starting)
- 14 Rudder Pedals
- 15 Triggers





D.Vs and D.Vss of Marine Feld Jasta 2, led by Lt. Theo Osterkemp at Jebbellin.

Obit Bruno Lörzer, CO of Jasta 26, talks to Crown Prince Wilhelm from the cockpit of his black and white striped D.V. Lörzer survived the war with 41 victories and served in the Luftwaffe in WWII. (Air Force Museum)

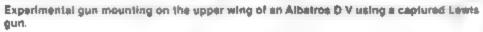
Another view of Jasta 32b. The second aircraft, with the black and white circle on the fuserage, was flown by Vztw. Paul Retech, All air craft of this unit have black tails.



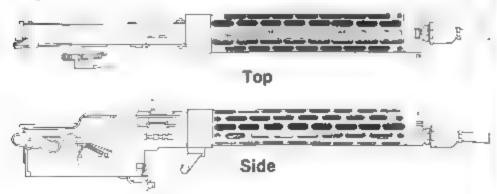






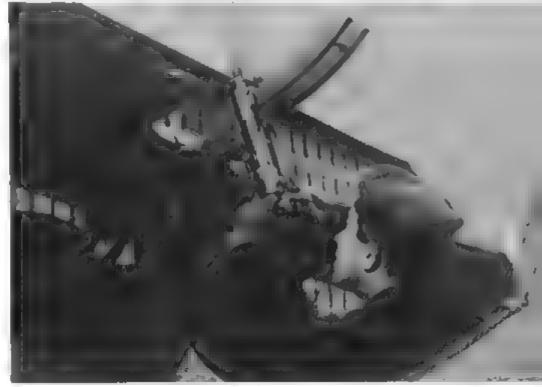


Spandau/Maxim

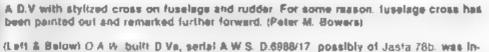


(Right Above & Right) Another experimental gun mount, this one featuring an Italian Villar Perosa gun. Many of these two-barreled, 9mm weapons were captured at Caparetto in late 1917. Unfortunately, it didn't have enough striking power for effective serial use.









(Left & Below) O A W built D Ve, serial A W S. D.5988/17 possibly of Jasta 78b. was intermed in Switzerland after the pilot became lost. The aircraft carries late style German national markings, introduced in June 1918. The view below shows the aircraft after its rudder and tuselage crosses have been painted out, the latter seamingly replaced with a Swiss white cross. In:tlats A W S. In serial stood for Arbatroswerke Schneidemuhl another name for Ostdeutsche Arbatros Werke.





The Austrian Albatroses

The Albatros DT and DTII were produced in Austria by the Oesterreichische Fiugzeugfabrik A G (Oeffag) of Wiener-Neustadt and saw much service with the Königlich und Kalserlich Luftfahrtruppen (Royal and Imperial Air Service) of the Austro-Hungarian Army These sincraft were built in three series, serialed 53, 153 and 253 (Each Austrian air craft manufacturer was assigned a key digit, in the case of Oeffag, this digit was 5 Another digit designated the specific aircraft type, the Albatros being assigned the digit 3, it more than one series of an aircraft type was produced a third key digit, in sequen it was added to the front of the serial, hence 53, 153 and 253 for the three series of the Albatros. These three key digits were to lowed by a decimal point, and after that the number of the individual aircraft in the series. Thus, the serial 153, 25 on the side of an aircraft indicates that it is the twenty fifth Albatros of the second production series.)

in most respects, the Austrian Albatroses resembled their German counterparts. There were differences however principally in power and armament. Power was supplied by the excellent Austro-Daim er engine in three power ratings. 185hp (Series 53), 200hp (Series 153) and 225hp (Series 253). Armament consisted of twin, synchronized Schwarzlose.

machine guns which were completely buried under the fuselage decking, and fired through long triast tubes on either side of the angine by inder banks. (Only one gun was lifted to the D.II version.) The Schwarz ose was of Austrian manufacture and was not as reliable as the German Max m. It had a slower rate of fire and was prone to jamming

The first 16 aircraft of the 53 Series were built as A ballos D I s, the remainder of a three Series were D IIIs. In the 253 Series, the use of the largest and most powerful Austro-Daimler engine necessitated some modifical on to the aircraft's nose in minating the property spinner.

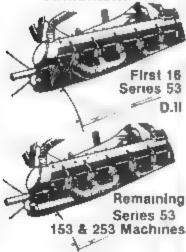
It is a credit to Delfag's designers that the Austrian Albalros Dills did not exhibit the wing structural problems of their German counterparts. This is because the Austrian engineers took special pains to strengthen the wing structure at the leading edge and structure points.

The Oettag Albatros was perhaps the best single seater used by the Austro-Hungar an Air Service and they were well-tiked by their pilots. Severa Austro-Hungarian aces such as Godwin Brumowsk. Frank Linke-Crawford and Josef Kiss fiew the Albatros during their combat careers and gained several victories mounting it.

Production of the *Oellag* A batros began in January 1917, and continued until October 1918, with a total of about 540 archaft being completed. The most produced variant was the 153 Series 286 of which were built.

Oeffea-buill A bairos Dil seria 53 01 of Austro Hungerian Air Service Note the wind driven Anomometer attached to left forward interplane strut. The only point appiled to the prototype was the national mark-Ings and serial numbers. Wings, tall plane and rudder were clear doped fuselage clear varnished. cowl panels, spinner and inspection plates bare matal.

Armament









D It serial 53 15 was next-to-last D.II built by Oeffag.



Oettag-built D III 53 24 was 11fth D III of the series (serials for D III variants had begun with 53,20). Power plant was 185hp Austro-Da mier, which gave aircraft a top speed of about 110mph. Rate of climb was also slightly superior to German D.III.



Flemboyant color schemes were not often found on Austro-Rungar an aircraft, although some personal markings did appear such as this black and while geometric design on 53 27 believed flown by Gottlried Freiherr von Ban-

The second-highest acoring Austro-Hungarian ace was Julius Arigi, shown here in his Albatros D III. Arigi attained 32 victories becoming the most decorated NCO in the Austrian Lulitahrtruppen. During WWII he served as a Lutiwaffe llying instructor and counted aces Walter Nowotny and Hans-Joachim Marseille among his pupits.







O II. serial 53.40 Hown by Obit Fischer cracked up during anding, having apparently hit the ditch shown Blast tubes of buried Schwarz-ose guns can be seen at aides of engine cylinder bank. Also note the shaped aluminum fair lings which streamline the wing root into the contours of the lower fuselage.



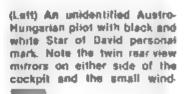
D.III, 53.38, in flight over the Alps. The war in the air between the Austro-Hungarians and the Italiane was fought over some of the world's most rugged terrain. This was the 19th 0.10 of the 53 Series out of a total of 44. This alreraft ap-pears to be filted with an auxiliary strut from the lower wing leading adge to front interplane strut-leg in the manner of the German Albatros D Va. Austrian Dills, however, were never plagued with the wing structural problems which characterized the German.

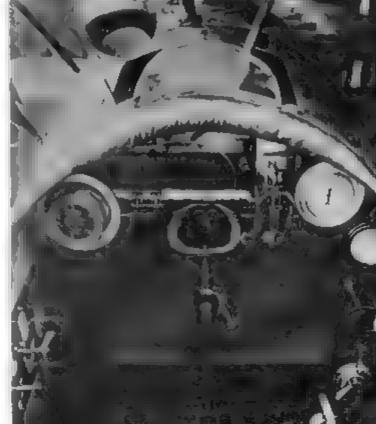






(Above) the engine mount of an Austrian D III shows the biset tube for one of the buried guns. Also note piping for the wingmounted radiator





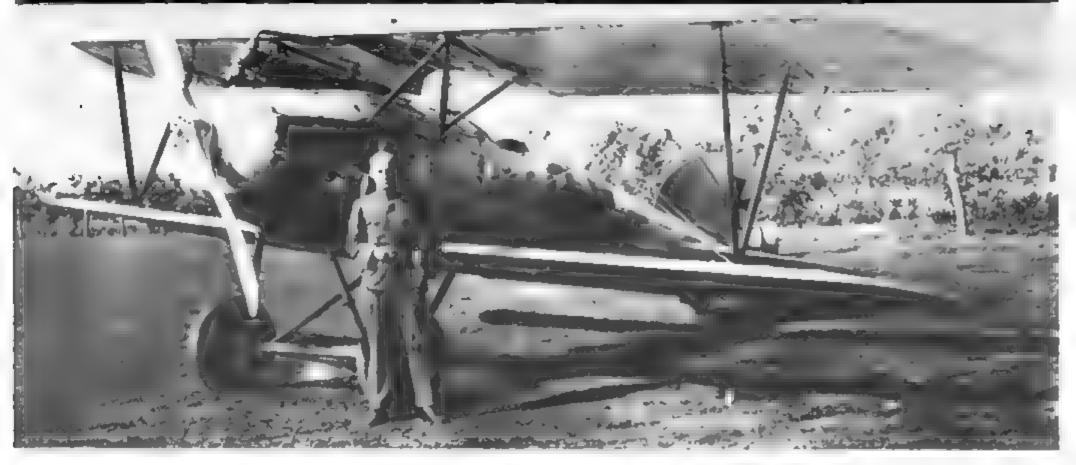
(Right) Cockpit of Austrian



With the availability of the 200hp Austro-Deimler, production of the 153 Series Albatros began, the first examples ready for service use by July 1917 Shown is the seventh production machine. A total of 281 Onlis were built in this series









Last production variant of Austrian D.III was the 253 Series, powered by 225hp Austro-Darmier. Use of this more powerful engine necessitated the modification of the nose including the secrice of the prope lerispinner. 201 aircraft were built in this series, the first examples being delivered in May 1818.

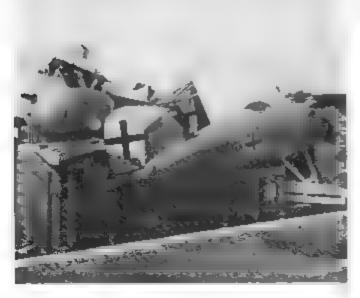


D.tll, serial 253 238, possibly of Flik 32, with interesting personal marking, a striped fin.

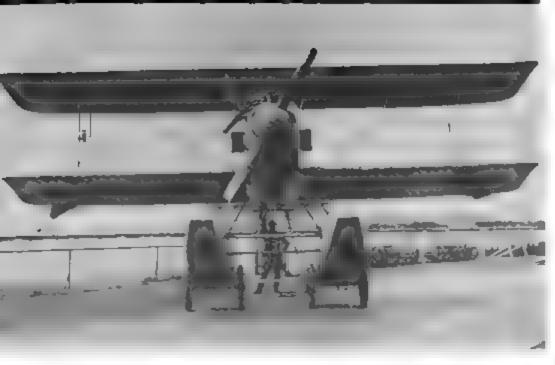


Line-up of some variously damaged Austrian Albeiros lighters at an airfleid in Northern Italy

(Right & Below) Wrecked Austrian D III-type aircreft ebendoned at Gorizia railway station by the retreating Austro-Hungariens.

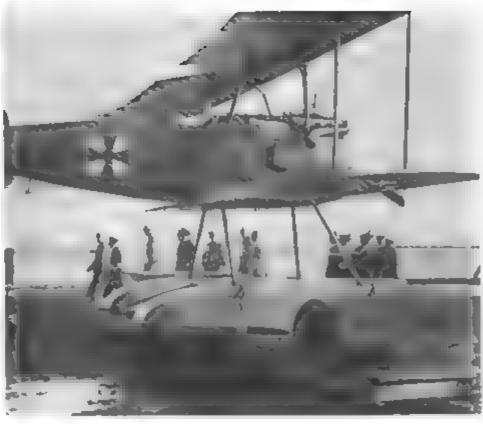






Albertos Wikiprototype serial 747 ordered in June 1916 and completed three months later it is seen in these likes yiews being examined by German Naval personnel. Note the square-section floats, characteristic of early versions.





The Albatros W.4

The Albatros W 4 was developed in response to a German Admitarty request for a high performance sean are to protect its bases along the Flanders Coast. The first W 4 was ordered in June 1916 and delivered in September, it resembled the DJ landplane. Then in production at Johannistahl, but had larger wings with increased gap. Fin and rudder area was also increased, and the fuse age undertin eliminated.

Only the prototype W 4 was built by the Albatros company. The rest were constructed by the seaplane works at Friedrichshagen, a suburb of Berlin. Later W 4s featured floats of better aerodynamic shape, shorter float struts, a wing-mounted radiator and alierons on both wings.

The W4 showed excellent performance for a seaplane, with a top speed of about 100mph. It could climb to 3,000 meters (9,840ft) in 11 ½ minutes and its maneuverability was also good.

A total of 118 W 4s were built, in eight production batches, and deliveries took place between September 1916 and December 1917 it was used mostly on the 8a tic and North Sea coasts by the German Navy Eight second-hand W 4s were obtained by the Austro-Hungarian Naval Air Service and operated in the Aegean. The W 4 remained in service and to the Armistice. At war's end, 67 were still 1 sted as being in service use.



Albatros W 4 serial 1486 lifustrates features of late production alreaft of this type, on both wings. This aircraft appears to be unarmed notably more aerodynamic floats, shorter float struts, wing-mounted rediator and ailerons





(Above, Left & Left Below) Albetros W.4 in flight shows its clean lines to good advantage.

German Naval mechanics at work on a W.4 during the spring of 1918, (Peter M. Bowers)





Adolf Blaha. Czechoslovakian pitol who flew with the Austro-Hungarian Luftfahrtruppen poses with his Albatros at Zurich. Switzerland, in February 1919. Blaha had become lost in fog during a flight on 22 October 1918, landed at Zurich, and was interned for the last few days of the war along with his aircraft. Serial of this machine was 253.116. After the Independence of Czechoslovakie was established, Blaha was allowed to fly his aircraft home.



Post-War Albatros

The combat career of the Albatros did not end with the closing of World War One. A large number of Austrian-built Dulis, mostly of the 253 Series, were obtained by Poland after the Armistice and were an important component in the formation of the Polish Air Force. The Polish Dulis saw extensive service during the Polish-Russian War of 1919-20. The most illustrious user of the aircraft was the tamed Eskadra Kosciuszkowska

(Kosciuszko Squadron), a group of American volunteers organized shortly after the Armistice by Capt. Merian C. Cooper and Maj. Cedric E. Fauntieroy.

Combat in Poland consisted mostly of ground attack, due to the lack of Russian aerial opposition. The armament officer of the Kosciuszko Squadron, Maj. Edward W. Chess, modified the firing mechanism of the aircrafts' guns and doubled the rate of fire from 100 to 200 rounds per minute. Racks for small bombs were littled to the wings.

Another post-war user of the Albatros fighters was Czechoslovakia, which obtained several Austrian D.IIIs to equip its first Air Force units. And Canadian ace Raymond Collishaw, while flying for the White Russian forces during the Russian Civil War in 1919, reported shooting down an Albatros D.V carrying Red Russian markings.



